

Plastcom PLASTALEN® PH 52 T 20 003/1M Polypropylene reinforced with 20% mineral filler

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Mineral Reinforced

Material Notes:

PP homopolymer for injection molding with the content of 20 % mineral filler, heat stabilized. Application in automotive industry. Delivered in black grade. Information Provided by Plastcom spol. s r.o.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plastcom-PLASTALEN-PH-52-T-20-0031M-Polypropylene-reinforced-with-20-mineral-filler.php

Physical Properties	Metric	English	Comments
Density	1.08 g/cc	0.0390 lb/in ³	STN EN ISO 1183-1
Filler Content	20 %	20 %	
Linear Mold Shrinkage	0.011 cm/cm	0.011 in/in	STN EN ISO 294-4
Linear Mold Shrinkage, Transverse	0.012 cm/cm	0.012 in/in	STN EN ISO 294-4
Melt Flow	5.0 - 15 g/10 min @Load 2.16 kg, Temperature 230 °C	5.0 - 15 g/10 min @Load 4.76 lb, Temperature 446 °F	STN EN ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	25.0 MPa	3630 psi	STN EN ISO 527-2
Elongation at Break	5.0 %	5.0 %	STN EN ISO 527-2
Tensile Modulus	2.00 GPa	290 ksi	STN EN ISO 527-2
Flexural Strength	35.0 MPa	5080 psi	STN EN ISO 178
Flexural Modulus	1.70 GPa	247 ksi	STN EN ISO 178
Charpy Impact Unnotched	1.30 J/cm ² @Temperature -20.0 °C	6.19 ft-lb/in ² @Temperature -4.00 °F	STN EN ISO 179
	3.20 J/cm ² @Temperature 23.0 °C	15.2 ft-lb/in ² @Temperature 73.4 °F	STN EN ISO 179
Charpy Impact, Notched	0.130 J/cm ² @Temperature -20.0 °C	0.619 ft-lb/in ² @Temperature -4.00 °F	STN EN ISO 179
	0.230 J/cm ² @Temperature 23.0 °C	1.09 ft-lb/in ² @Temperature 73.4 °F	STN EN ISO 179

Thermal Properties	Metric	English	Comments
Melting Point	160 °C	320 °F	STN EN 11357-1
Deflection Temperature at 1.8 MPa (264 psi)	125 °C	257 °F	STN EN ISO 75-2 (A)
Vicat Softening Point	115 °C	239 °F	STN EN ISO 306
Flammability, UL94	HB	HB	

Processing Properties	Metric	English	Comments
Melt Temperature	200 - 250 °C	392 - 482 °F	
Mold Temperature	40.0 - 70.0 °C	104 - 158 °F	
Drying Temperature	80.0 °C @Time 14400 sec	176 °F @Time 4.00 hour	
Moisture Content	0.10 %	0.10 %	STN EN ISO 3344
Injection Pressure	70.0 - 120 MPa	10200 - 17400 psi	

Descriptive Properties	Value	Comments
Color	Black	

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